

F16. 1

SELECT A LARGE PRIME P, AND

GROUPS G, AND GZ OF ORDER P THAT ARE

EQUIPPED WITH A BILINGAR PAIRING E

SUCH THAT e: G, XG, -> GZ

(E.G., SELECT AN APPROPRIATE CURVE E

OVER A FIELD FG SUCH THAT

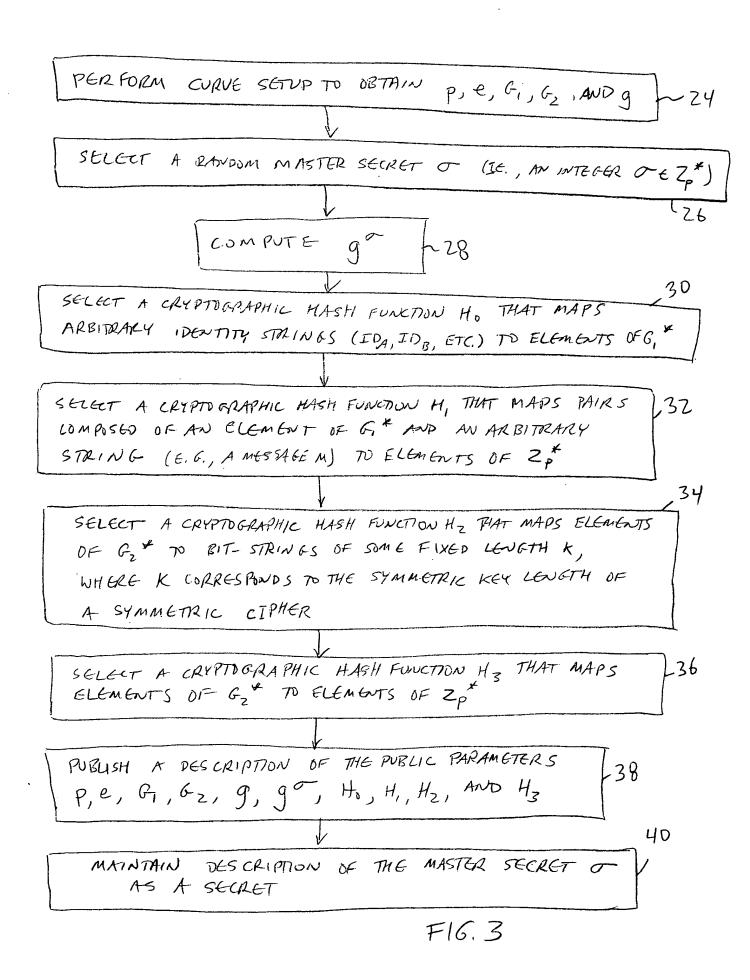
E (Fg) HAS A SUBGROUP G, OF ORDER P,

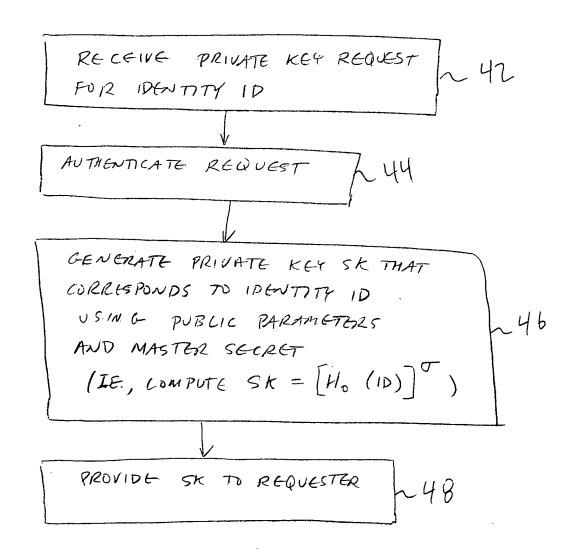
WHERE E IS THE TATE OR WEIL PAIRING

FROM G, XG, TO A GROUP GZ OF ORDER P)

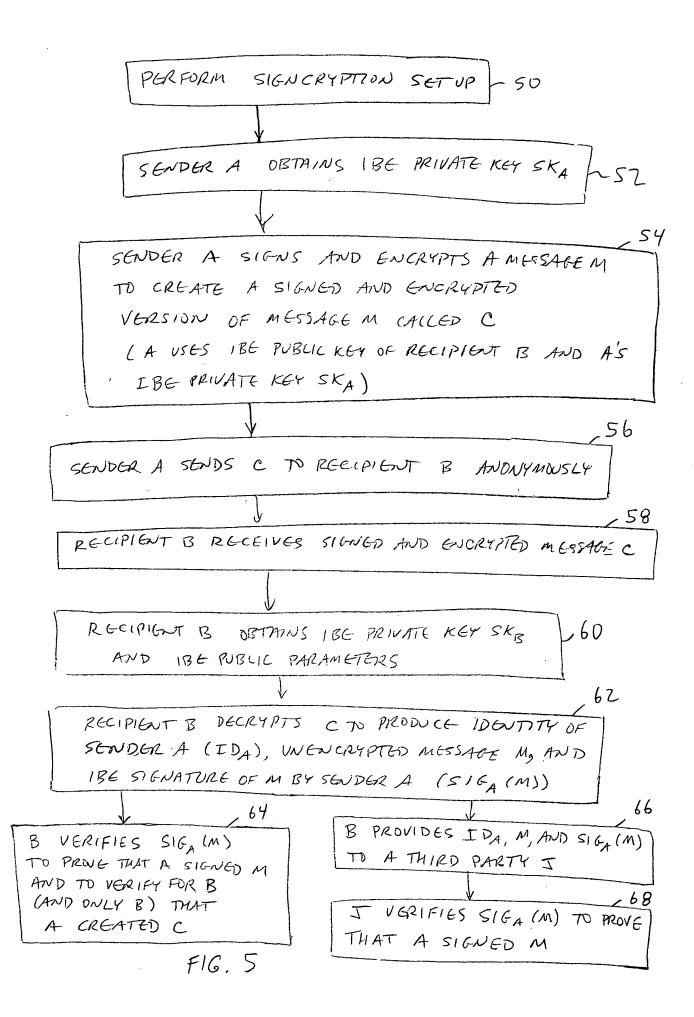
SELECT A GENERATOR $g \in G$, n20(ONSTRUCT A DESCRIPTION OF p, e, G, G, G, AND g

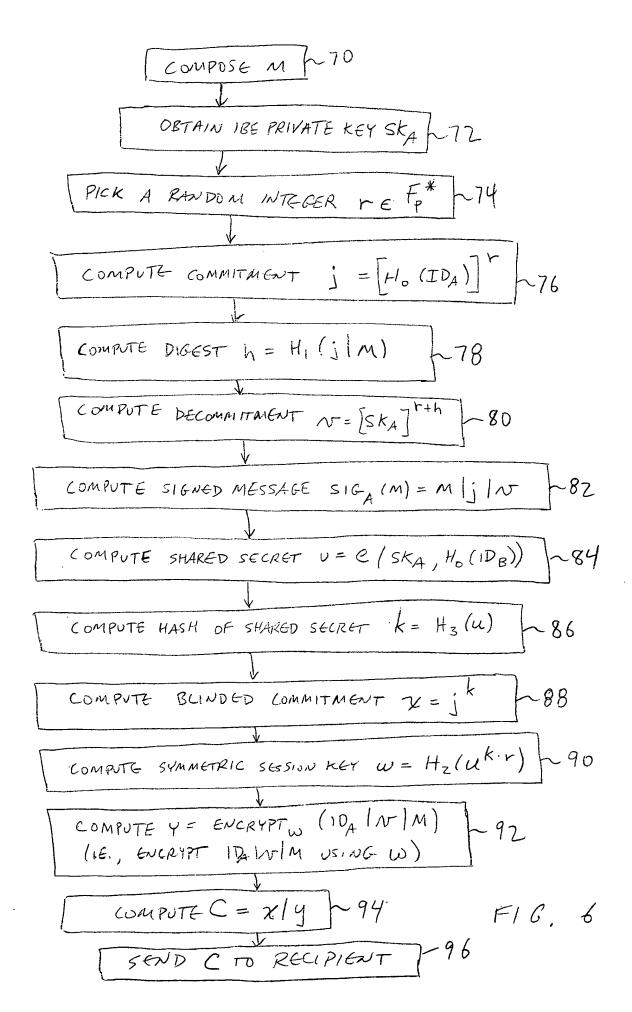
FIG. 2

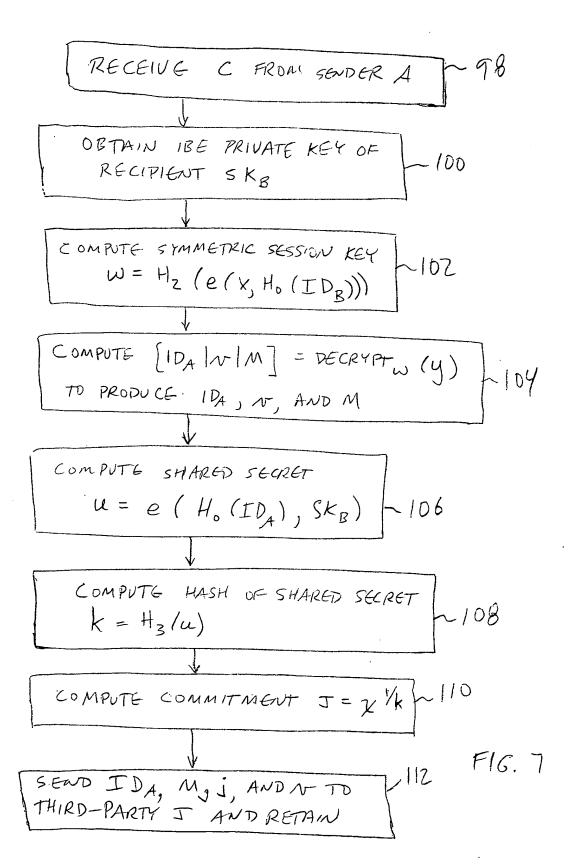




F16.4







OBTAIN IDA, M, J, NO

(E:G., DECRYPT C TO PRODUCE

THESE VALUES OR RECEIVE

THIS INFORMATION FROM

PARTY WHO DECRYPTED C)

COMPUTE HASH OF COMMITMENT

CONCATENATED WITH MESSAGE

h = H₁(j|M)

LOMPARE e(g, N) AND e(g^T, H₀(ID_A)^h·j)

TO DETERMINE WHETHER A SIGNED M

F16. 8